

SEQUENCE LISTING

<110> EPIC PETALLE MACEUTICAL, INC.
 HIATT, ANDREW C.
 HEIN, MICH B.
 FITCHEN, JOHN H.



<120> NOVEL EPITHELIAL TISSUE IMAGING AGENT

<130> 068904-0204

<140> UNASSIGNED

<141> HEREWITH

<150> 09/005,167

<151> 1998-01-09

<150> 08/782,480

<151> 1997-01-10

<160> 93

<170> PatentIn 3.0

<210> 1

<211> 137

<212> Protein

<213> Human

<220>

<221> misc-feature

<222> Synthetic polypeptide J chain

<400> 1

Gln Glu Asp Glu Arg Ile Val Leu Val Asp Asn Lys Cys Lys Cys Ala 1 5 10 15

Arg Ile Thr Ser Arg Ile Ile Arg Ser Ser Glu Asp Pro Asn Glu Asp 20 25 30

Ile Val Glu Arg Asn Ile Arg Ile Ile Val Pro Leu Asn Asn Arg Glu 35 40 45

Asn Ile Ser Asp Pro Thr Ser Pro Leu Arg Thr Arg Pro Val Tyr His 50 55 60

Leu Ser Asp Leu Cys Lys Lys Cys Asp Pro Thr Glu Val Glu Leu Asp 65 70 75 80

Asn Gln Ile Val Thr Ala Thr Gln Ser Asn Ile Cys Asp Glu Asp Ser 85 90 95

RECEIVE

TECH CENTER 1600/2900

Ala Thr Glu Thr Cys Tyr Thr Tyr Asp Arg Asn Lys Cys Tyr Thr Ala 100 105 110

Val Val Pro Leu Val Tyr Gly Gly Glu Thr Lys Met Val Glu Thr Ala 115 120 125

Leu Thr Pro Asp Ala Cys Tyr Pro Asp 130 135

<210> 2

<211> 135

<212> Protein

<213> Mouse

<220>

<221> misc-feature

<222> Synthetic polypeptide J chain

<400> 2

Gln Asp Glu Asn Glu Arg Ile Val Val Asp Asn Lys Cys Lys Cys Ala 1 5 10 15

Arg Ile Thr Ser Arg Ile Ile Pro Ser Ala Glu Asp Pro Ser Gln Asp 20 25 30

Ile Val Glu Arg Asn Val Arg Ile Ile Val Pro Leu Asn Ser Arg Glu 35 40 45

Asn Ile Ser Asp Pro Thr Ser Pro Met Arg Thr Lys Pro Val Tyr His 50 55 60

Leu Ser Asp Leu Cys Lys Lys Cys Asp Thr Thr Glu Val Glu Leu Glu 65 70 75 80

Asp Gln Val Val Thr Ala Ser Gln Ser Asn Ile Cys Asp Ser Asp Ala 85 90 95

Glu Thr Cys Tyr Thr Tyr Asp Arg Asn Lys Cys Tyr Thr Asn Arg Val

Lys Leu Ser Tyr Arg Gly Gln Thr Lys Met Val Glu Thr Ala Leu Thr 115 120 125

Pro Asp Ser Cys Tyr Pro Asp 130 135 <210> 3

<211> 137

<212> Protein

<213> Rabbit

<220>

<221> misc-feature

<222> Synthetic polypeptide J chain

<400> 3

Asp Asp Glu Ala Thr Ile Leu Ala Asp Asn Lys Cys Met Cys Thr Arg 1 5 10 15

Val Thr Ser Arg Ile Ile Pro Ser Thr Glu Asp Pro Asn Glu Asp Ile 20 25 30

Val Glu Arg Asn Ile Arg Ile Val Val Pro Leu Asn Asn Arg Glu Asn 35 40 45

Ile Ser Asp Pro Thr Ser Pro Leu Arg Arg Asn Pro Val Tyr His Leu 50 55 60

Ser Asp Val Cys Lys Lys Cys Asp Pro Val Glu Val Glu Leu Glu Asp 65 70 75 80

Gln Val Val Thr Ala Thr Gln Ser Asn Ile Cys Asn Glu Asp Asp Gly 85 90 95

Val Pro Glu Thr Cys Tyr Met Tyr Asp Arg Asn Lys Cys Tyr Thr Thr 100 105 110

Met Val Pro Leu Arg Tyr His Gly Glu Thr Lys Met Val Gln Ala Ala 115 120 125

Leu Thr Pro Asp Ser Cys Tyr Pro Asp 130 135 <210> 4

<211> 136

<212> Protein

<213> Bovine

<220>

<221> misc-feature

<222> Synthetic polypeptide J chain

<400> 4

Glu Asp Glu Ser Thr Val Leu Val Asp Asn Lys Cys Gln Cys Val Arg

1 10 15

Ile Thr Ser Arg Ile Ile Arg Asp Pro Asp Asn Pro Ser Glu Asp Ile
20 25 30

Val Glu Arg Asn Ile Arg Ile Ile Val Pro Leu Asn Thr Arg Glu Asn 35 40 45

Ile Ser Asp Pro Thr Ser Pro Leu Arg Thr Glu Pro Lys Tyr Asn Leu 50 55 60

Ala Asn Leu Cys Lys Lys Cys Asp Pro Thr Glu Ile Glu Leu Asp Asn 65 70 75 80

Gln Val Phe Thr Ala Ser Gln Ser Asn Ile Cys Pro Asp Asp Asp Tyr 85 90 95

Ser Glu Thr Cys Tyr Thr Tyr Asp Arg Asn Lys Cys Tyr Thr Thr Leu 100 105 110

Val Pro Ile Thr His Arg Gly Val Thr Arg Met Val Lys Ala Thr Leu 115 120 125

Thr Pro Asp Ser Cys Tyr Pro Asp 130 135

<210> 5 <211> 119 <212> Protein <213> Bull frog <220> <221> misc-feature <222> Synthetic polypeptide J chain <400> 5 Glu Gln Glu Tyr Ile Leu Ala Asn Asn Lys Cys Lys Cys Val Lys Ile Ser Ser Arg Phe Val Pro Ser Thr Glu Arg Pro Gly Glu Glu Ile Leu 25 Glu Arg Asn Ile Gln Ile Thr Ile Pro Thr Ser Ser Arg Met Xaa Ile 35 40 45 Ser Asp Pro Tyr Ser Pro Leu Arg Thr Gln Pro Val Tyr Asn Leu Trp Asp Ile Cys Gln Lys Cys Asp Pro Val Gln Leu Glu Ile Gly Gly Ile 70 75 Pro Val Leu Ala Ser Gln Pro Xaa Xaa Ser Xaa Pro Asp Asp Glu Cys 90 Tyr Thr Thr Glu Val Asn Phe Lys Lys Val Pro Leu Thr Pro Asp 100 Ser Cys Tyr Glu Tyr Ser Glu 115 <210> 6 <211> 129 <212> Protein <213> Earthworm <220> <221> misc-feature <222> Synthetic polypeptide J chain <400> 6 Asn Lys Cys Met Cys Thr Arg Val Thr Ala Arg Ile Arg Gly Thr Arg 10 Glu Asp Pro Asn Glu Asp Ile Val Glu Arg Tyr Ile Arg Ile Asn Val

Pro Leu Lys Asn Arg Gly Asn Ile Ser Asp Pro Thr Ser Pro Leu Arg
35 40 45

Tyr Glu Asp Gly Val Val Thr Ala Thr Glu Thr Asn Ile Cys Tyr Pro 70 75 Asp Gln Gly Val Pro Gln Ser Cys Arg Asp Tyr Cys Pro Glu Leu Asp Arg Asn Lys Cys Tyr Thr Val Leu Val Pro Pro Gly Tyr Thr Gly Glu 105 Thr Lys Met Val Gln Asn Ala Leu Thr Pro Asp Ala Cys Tyr Pro Asp 120 <210> 7 <211> 421 <212> DNA <213> Artificial Sequence <220> <221> CDS <222> (1)..(414) <220> <221> misc-feature <222> Description of Artificial Sequence: Synthetic polypeptide including target of "full length" TM cDNA <400> 7 GAT CAG GAA GAT GAA CGT ATT GTT CTG GTT GAC AAC AAG TGC AAG TGT 48 Asp Gln Glu Asp Glu Arg Ile Val Leu Val Asp Asn Lys Cys Lys Cys 10 15 GCT CGT ATT ACT TCT AGA ATC ATC CGT AGC TCA GAG GAC CCA AAT GAA 96 Ala Arg Ile Thr Ser Arg Ile Ile Arg Ser Ser Glu Asp Pro Asn Glu 20 GAT ATA GTC GAA CGT AAC ATC CGT ATC ATC GTC CCA CTG AAT AAC CGG 144 Asp Ile Val Glu Arg Asn Ile Arg Ile Ile Val Pro Leu Asn Asn Arg 35 GAG AAT ATC TCA GAT CCT ACA AGT CCG TTG CGC ACA CGC TTC GTA TAC 192 Glu Asn Ile Ser Asp Pro Thr Ser Pro Leu Arg Thr Arg Phe Val Tyr CAC CTG TCA GAT CTG TGT AAG AAG TGT GAT CCA ACA GAG GTA GAG CTG 240 His Leu Ser Asp Leu Cys Lys Lys Cys Asp Pro Thr Glu Val Glu Leu 65 70

Asn Gln Pro Val Tyr His Leu Ser Pro Ser Cys Lys Lys Cys Asp Pro

55

GAC Asp	AA. Ası	r CAG	G ATA n Il∈	A GTC Val 85	Thr	GCG Ala	ACT Thr	CAA Gln	AGC Ser 90	Asn	ATI Ile	TGC Cys	GAT Asp	GAG Glu 95	GAC Asp		288
AGC Ser	GCT Ala	T ACA	A GAA Glu 100	ACC Thr	TGC Cys	AGC Ser	ACC Thr	TAC Tyr 105	Asp	AGG Arg	AAC Asn	AAA Lys	TGC Cys 110	Tyr	ACG Thr		336
GCC Ala	GT(GT7 Val	Pro	CTC Leu	GTG Val	TAT	GGT Gly 120	Gly	GAG Glu	ACA Thr	AAA Lys	ATG Met 125	GTG Val	GAA Glu	ACT Thr		384
		Thr		GAT Asp						TGA	ATTC						421
<21 <21 <21 <21	1 > 2 >	8 215 DNA Arti	fici	al S	eque	nce											
<22 <22 <22	1>	CDS (1).	. (21	3)													
<22 <22 <22 cDN	1> 2>		-fea ript		of Ai	ctif	icial	l Sed	quenc	ce: 1	Nucle	eotic	le se	equer	nce of	: Core	TM
<400 GAT Asp 1	CAG	8 AAG Lys	TGC Cys	AAG Lys 5	TGT Cys	GCT Ala	CGT Arg	ATT Ile	ACT Thr	TCT Ser	AGA Arg	ATC Ile	ATC Ile	CGT Arg 15	AGC Ser		48
TCA Ser	GAG Glu	GAC Asp	CCA Pro 20	AAT Asn	GAA Glu	GAT Asp	ATA Ile	GTC Val 25	GAA Glu	CGT Arg	AAC Asn	ATC Ile	CGT Arg 30	ATC Ile	ATC Ile		96
GTC Val	CCA Pro	CTG Leu 35	AAT Asn	AAC Asn	CGG Arg	GAG Glu	AAT Asn 40	ATC Ile	TCA Ser	GAT Asp	CCT Pro	ACA Thr 45	AGT Ser	CCG Pro	TTG Leu	:	144
CGC Arg	ACA Thr 50	CGC Arg	TTC Phe	GTA Val	TAC Tyr	CAC His 55	CTG Leu	TCA Ser	GAT Asp	CTG Leu	TGT Cys 60	AAG Lys	AAG Lys	GAT Asp	GAG Glu	:	192
				GAA Glu			TG									2	215

<210> 9 <211> 140 <212> DNA <213> Artificial Sequence	
<220> <221> misc-feature <222> Description of Artificial Sequence: Nucleotide sequence	ce of C2 fragment
<400> 9 CTAGAATCAT CCGTAGCTCA GAGGACCCAA ATGAAGATAT AGTCGAACGT AACATC	CCGTA 60
TCATCGTCCC ACTGAATAAC CGGGAGAATA TCTCAGATCC TACAAGTCCG TTGCGC	CACAC 120
GCTTCGTATA CCACCTGTCA	140
<210> 10 <211> 31 <212> DNA <213> Artificial Sequence	
<220> <221> misc-feature <222> Description of Artificial Sequence: Nucleotide sequence fragment	ce of D1.1
<400> 10 GATCAGAAGT GCAAGTGTGC TCGTATTACT T	31
<210> 11 <211> 44 <212> DNA <213> Artificial Sequence	
<220> <221> CDS <222> (1)(42)	
<220> <221> misc-feature <222> Description of Artificial Sequence: Nucleotide sequence fragment	e of L3D
<pre><400> 11 GAT CTG TGT AAG AAG GAT GAA GAT TCC GCT ACA GAA ACC TGC Asp Leu Cys Lys Lys Asp Glu Asp Ser Ala Thr Glu Thr Cys</pre>	42
TG	44

```
<211> 109
<212> DNA
<213>
       Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Nucleotide sequence of T4 fragment
<400> 12
GCACCTACGA TAGGAACAAA TGCTACACGG CCGTGGTTCC GCTCGTGTAT GGTGGAGAGA
                                                                        60
CAAAAATGGT GGAAACTGCC CTTACGCCCG ATGCATGCTA CCCTGACTG
                                                                       109
<210> 13
<211> 286
<212> DNA
<213> Artificial Sequence
<220>
<221> CDS
<222>
      (1)..(282)
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Nucleotide sequence of Core TM
cDNA using L3
<400> 13
GAC AAC AAG TGC AAG TGT GCT CGT ATT ACT TCT AGA ATC ATC CGT AGC
                                                                       48
Asp Asn Lys Cys Lys Cys Ala Arg Ile Thr Ser Arg Ile Ile Arg Ser
 15
                     20
                                         25
TCA GAG GAC CCA AAT GAA GAT ATA GTC GAA CGT AAC ATC CGT ATC ATC
                                                                       96
Ser Glu Asp Pro Asn Glu Asp Ile Val Glu Arg Asn Ile Arg Ile Ile
                 35
GTC CCA CTG AAT AAC CGG GAG AAT ATC TCA GAT CCT ACA AGT CCG TTG
                                                                      144
Val Pro Leu Asn Asn Arg Glu Asn Ile Ser Asp Pro Thr Ser Pro Leu
             50
CGC ACA CGC TTC GTA TAC CAC CTG TCA GAT CTG TGT AAG AAG TGT GAT
                                                                      192
Arg Thr Arg Phe Val Tyr His Leu Ser Asp Leu Cys Lys Lys Cys Asp
         65
CCA ACA GAG GTA GAG CTG GAC AAT CAG ATA GTC ACT GCG ACT CAA AGC
                                                                      240
Pro Thr Glu Val Glu Leu Asp Asn Gln Ile Val Thr Ala Thr Gln Ser
    80
                         85
                                             90
```

<210> 12

AAC ATT TGC GAT GAG GAC AGC GCT ACA GAA ACC TGC TAC TGA Asn Ile Cys Asp Glu Asp Ser Ala Thr Glu Thr Cys Tyr * 95 100 105	282
ATTC	286
<210> 14 <211> 105 <212> DNA <213> Artificial Sequence	
<220> <221> CDS <222> (1)(105)	
<221> misc-feature <222> Description of Artificial Sequence: Nucleotide sequence of L3	fragment
<pre><400> 14 GAT CTG TGT AAG AAG TGT GAT CCA ACA GAG GTA GAG CTG GAC AAT CAG Asp Leu Cys Lys Lys Cys Asp Pro Thr Glu Val Glu Leu Asp Asn Gln 95</pre>	48
ATA GTC ACT GCG ACT CAA AGC AAC ATT TGC GAT GAG GAC AGC GCT ACA Ile Val Thr Ala Thr Gln Ser Asn Ile Cys Asp Glu Asp Ser Ala Thr 115 120 125	96
CTT TGG ACG Leu Trp Thr	105
<210> 15 <211> 61 <212> DNA <213> Artificial Sequence	
<pre><220> <221> misc-feature <222> Description of Artificial Sequence: Nucleotide sequence of D1</pre>	fragment
<pre><400> 15 GATCAGGAAG ATGAACGTAT TGTTCTGGTT GACAACAAGT GCAAGTGTGC TCGTATTACT</pre>	60
T	61

\Z I		10															
	1>	-															
		DNA															
<21	3>	Arti	fici	al S	eque	nce											
	•																
<22			-														
				ture													
<22	2>	Desc	ript	ion	of A	rtif	icia	l Se	quen	ce:	Nucl	eoti	de s	seque	nce of	Тр	S2
	_																
< 40		16															
GCG	ATGA	.CGA	CGAT	AAGG	CC C	AAAC	GGAG	A CC	TGTA	CTGT	TGC	GCCT	CGT	GAAC	GGCAAA	¥.	60
3 Om	~~~		~~~														
ACT	GCGG	A'I"I'	CCCG	GAAG	TA A	.CACC	CTCT	C AG	TGCG	CTAA	TAA	AGGC	TGC	TGTT	TTGATO	}	120
7 (7	aaam	200	~~~	~~~	~~ -	~~~~											
ACA	CGGT	ACG	GGGC	GTTC	CG T	GGTG	CTTC	T AC	CCCA	ATAC	AAT	TGAC	GTT	CCGC	CTGAAC	3 .	180
770	n ama	~~~	aaaa	m													
AAG	AGTG	CGA	GCCG	TAAG													198
	^																
		17															
	1>																
		Prot															
<2 T	3> .	Artı	IlCl	al S	eque	nce											
-22	٥.																
<22			-														
				ture				_									
<22.	۷> . ساداد ۱۱	Desc:	ript	ion	or A	rtıt	icia	1 Se	quen	ce:	Synt	heti	c po	lype	ptide	of '	"full
ren	gtn"	TM	cDNA														
<40	0 ~	17															
			7 an	C1.,	7 ~~	т1.	7707	T	17- 1		` ~	-	_	_	_		
75p	GIII	GIU	Asp	5	Arg	шe	vai	ьeu			Asn	ьys	Cys	Lys	Cys		
				5					10					15			
Δla	Δrα	Tla	Thr	Car	λνα	Tlo	т1 о	7 200	0	C	01	7	D	Asn	~1		
mu	AL 9	110	20	261	Arg	116	116	25	ser	ser	GIU	Asp			Glu		
			20					25					30				
Asp	Tle	Val	Glu	λνα	λen	Tla	7 ~~	т	тіс	1707	D	T	7	Asn	3		
тър	110	35	Giu	Arg	ASII	116				vai			Asn	Asn	Arg		
		33					40					45					
Glu	Δsn	Tle	Ser	Aen	Dro	Thr	602	Dro	T 011	71	mla	7	D1		_		
O L u	50	110	DCI	App	FIO	55	SEL	PIO	пеп	Arg		arg	Pne	Val	Tyr		
	30					23					60						
His	Len	Ser	Agn	T. 211	Cvc	Lazo	Tara	Crra	7 ~~	Dave	mla	a 1	77 - 7	a 1	-		
65	пси	ber	App	пси		пуъ	цуѕ	Cys	Asp		Thr	GIU	vai	Glu			
0.5					70					75					80		
Agn	Aen	Gln	Tlo	1727	The	ח ד ת	mla sa	a 1	a	.	- 7	_	_		_		
дар	Abii	GIII	116		THE	Ата	Thr	GIN		Asn	TTe	Cys	Asp	Glu	Asp		
				85					90					95			
202	~ ומ	ть∽	G1	mh	~	0	m₁-		70		_	_	_				
261	ита	TIII		ınr	cys	ser	Thr		Asp	Arg	Asn	Lys		Tyr	Thr		
			100					105					110				
Δla	Val	U=1	Dro	יים.	77-7	Ф~	C1	C 1	0 1	m1	T		,, ,	~ 3			
	, 41	115	110	Leu	vaı	тут	120	GIÀ	GIU	ınr	туѕ	Met 125	vaı	Glu	Thr		
		_ ~ ~					1 2 0					140					

```
<210> 18
<211> 71
<212> Protein
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Synthetic polypeptide of Core TM
CDNA
<400> 18
Asp Gln Lys Cys Lys Cys Ala Arg Ile Thr Ser Arg Ile Ile Arg Ser
Ser Glu Asp Pro Asn Glu Asp Ile Val Glu Arg Asn Ile Arg Ile Ile
             20
                                 25
Val Pro Leu Asn Asn Arg Glu Asn Ile Ser Asp Pro Thr Ser Pro Leu
Arg Thr Arg Phe Val Tyr His Leu Ser Asp Leu Cys Lys Lys Asp Glu
Asp Ser Ala Thr Glu Thr Cys
<210> 19
<211> 49
<212> Protein
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Synthetic polypeptide of C2
fragment
<400> 19
     Ser Arg Ile Ile Arg Ser Ser Glu Asp Pro Asn Glu Asp Ile Val Glu
                                                            15
     Arg Asn Ile Arg Ile Ile Val Pro Leu Asn Asn Arg Glu Asn Ile Ser
                 20
    Asp Pro Thr Ser Pro Leu Arg Thr Arg Phe Val Tyr His Leu Ser Asp
                                40
```

Ala Leu Thr Pro Asp Ala Cys Tyr Pro Asp

135

130

Leu

```
<210> 20
<211> 12
<212> Protein
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Synthetic polypeptide of D 1.1
fragment
<400> 20
     Asp Gln Lys Cys Lys Cys Ala Arg Ile Thr Ser Arg
           5
<210> 21
<211> 14
<212> Protein
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Synthetic polypeptide of L3D
fragment
<400> 21
Asp Leu Cys Lys Lys Asp Glu Asp Ser Ala Thr Glu Thr Cys
                 5.
<210> 22
<211> 36
<212> Protein
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Synthetic polypeptide of T4
fragment
<400> 22
    Ser Thr Tyr Asp Arg Asn Lys Cys Tyr Thr Ala Val Val Pro Leu Val
                                        10
     Tyr Gly Gly Glu Thr Lys Met Val Glu Thr Ala Leu Thr Pro Asp Ala
                20
    Cys Tyr Pro Asp
            35
```

```
<210> 23
<211> 93
<212> Protein
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Synthetic polypeptide of Core TM
cDNA using L3
<400> 23
Asp Asn Lys Cys Lys Cys Ala Arg Ile Thr Ser Arg Ile Ile Arg Ser
        5
Ser Glu Asp Pro Asn Glu Asp Ile Val Glu Arg Asn Ile Arg Ile Ile
            20
                                25
Val Pro Leu Asn Asn Arg Glu Asn Ile Ser Asp Pro Thr Ser Pro Leu
                            40
Arg Thr Arg Phe Val Tyr His Leu Ser Asp Leu Cys Lys Lys Cys Asp
Pro Thr Glu Val Glu Leu Asp Asn Gln Ile Val Thr Ala Thr Gln Ser
65
                    70
                                       75
Asn Ile Cys Asp Glu Asp Ser Ala Thr Glu Thr Cys Tyr
                85
<210> 24
```

<211> 35 <212> Protein <213> Artificial Sequence <220> <221> misc-feature

<222> Description of Artificial Sequence: Synthetic polypeptide of L3 fragment

<400> 24 Asp Leu Cys Lys Lys Cys Asp Pro Thr Glu Val Glu Leu Asp Asn Gln

Ile Val Thr Ala Thr Gln Ser Asn Ile Cys Asp Glu Asp Ser Ala Thr 25

Leu Trp Thr 35

```
<210> 25
<211> 22
<212> Protein
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Synthetic polypeptide of D1
fragment
<400> 25
     Asp Gln Glu Asp Glu Arg Ile Val Leu Val Asp Asn Lys Cys Lys Cys
                     5
     Ala Arg Ile Thr Ser Arg
                 20
<210> 26
<211> 66
<212> Protein
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Synthetic polypeptide of TpS2
     Cys Ser Asp Asp Asp Lys Ala Gln Thr Glu Thr Cys Thr Val Ala
                                        10
     Pro Arg Glu Arg Gln Asn Cys Gly Phe Pro Gly Val Thr Pro Ser Gln
     Cys Ala Asn Lys Gly Cys Cys Phe Asp Asp Thr Val Arg Gly Val Pro
     Trp Cys Phe Tyr Pro Asn Thr Ile Asp Val Pro Pro Glu Glu Glu Cys
         50
<210> 27
<211> 421
<212> DNA
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Complementary nucleotide sequence
of "full length" TM cDNA
<400> 27
```

60

CTAGTCCTTC TACTTGCATA ACAAGACCAA CTGTTGTTCA CGTTCACACG AGCATAATGA

AGATCTTAGT AGGCATCGAG TCTCCTGGGT TTACTTCTAT ATCAGCTT	CGC ATTGTAGGCA 120
TAGTAGCAGG GTGACTTATT GGCCCTCTTA TAGAGTCTAG GATGTTCA	GG CAACGCGTGT 180
GCGAAGCATA TGGTGGACAG TCTAGACACA TTCTTCACAC TAGGTTGT	CT CCATCTCGAC 240
CTGTTAGTCT ATCAGTGACG CTGAGTTTCG TTGTAAACGC TACTCCTG	TC GCGATGTCTT 300
TGGACGTCGT GGATGCTATC CTTGTTTACG ATGTGCCGGC ACCAAGGC	GA GCACATACCA 360
CCTCTCTGTT TTTACCACCT TTGACGGGAA TGCGGGCTAC GTACGATA	GG CCTGACTTAA 420
G	421
<210> 28 <211> 219 <212> DNA <213> Artificial Sequence	
<220> <221> misc-feature <222> Description of Artificial Sequence: Complemen of Core TM cDNA	tary nucleotide sequence
<400> 28 CTAGTCTTCA CGTTCACACG AGCATAATGA AGATCTTAGT AGGCATCG	AG TCTCCTGGGT 60
TTACTTCTAT ATCAGCTTGC ATTGTAGGCA TAGTAGCAGG GTGACTTA	TT GGCCCTCTTA 120
TAGAGTCTAG GATGTTCAGG CAACGCGTGT GCGAAGCATA TGGTGGAC	AG TCTAGACACA 180
TTCTTCCTAC TCCTGTCGCG ATGTCTTTGG ACGACTTAA	219
<210> 29 <211> 140 <212> DNA <213> Artificial Sequence	
<220> <221> misc-feature <222> Description of Artificial Sequence: Complement of C2 fragment	cary nucleotide sequence
<400> 29 TTAGTAGGCA TCGAGTCTCC TGGGTTTACT TCTATATCAG CTTGCATTC	GT AGGCATAGTA 60
GCAGGGTGAC TTATTGGCCC TCTTATAGAG TCTAGGATGT TCAGGCAAC	CG CGTGTGCGAA 120
GCATATGGTG GACAGTCTAG	140

```
<210> 30
<211> 31
<212> DNA
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Complementary nucleotide sequence
of D 1.1 fragment
<400> 30
TCTTCACGTT CACACGAGCA TAATGAAGAT C
                                                                      31
<210> 31
<211> 44
<212> DNA
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Complementary nucleotide sequence of L3D fragment
<400> 31
ACACATTCTT CCTACTTCTC AGGCGATGTC TTTGGACGAC TTAA
                                                                      44
<210> 32
<211> 117
<212> DNA
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Complementary nucleotide sequence
of T4 fragment
<400> 32
ACGTCGTGGA TGCTATCCTT GTTTACGATG TGCCGGCACC AAGGCGAGCA CATACCACCT
                                                                      60
CTCTGTTTTT ACCACCTTTG ACGGGAATGC GGGCTACGTA CGATGGGACT GACTTAA
```

117

<210> 33 <211> 282 <212> DNA <213> Artificial Sequence	
<220> <221> misc-feature <222> Description of Artificial Sequence: Complementary nucleotide of Core TM cDNA using L3	sequence
<400> 33 CTGTTGTTCA CGTTCACACG AGCATAATGA AGATCTTAGT AGGCATCGAG TCTCCTGGGT	60
TTACTTCTAT ATCAGCTTGC ATTGTAGGCA TAGTAGCAGG GTGACTTATT GGCCCTCTTA	120
TAGAGTCTAG GATGTTCAGG CAACGCGTGT GCGAAGCATA TGGTGGACAG TCTAGACACA	180
TTCTTCACAC TAGGTTGTCT CCATCTCGAC CTGTTAGTCT ATCAGTGACG CTGAGTTTCG	240
TTGTAAACGC TACTCCTGTC GCGATGTCTT TGGACGATGA CT	282
<210> 34 <211> 105 <212> DNA <213> Artificial Sequence	
<220> <221> misc-feature <222> Description of Artificial Sequence: Complementary nucleotide of L3 fragment	sequence
<400> 34 GATCTGTGTA AGAAGTGTGA TCCAACAGAG GTAGAGCTGG ACAATCAGAT AGTCACTGCG	60
ACTCAAAGCA ACATTTGCGA TGAGGACAGC GCTACACTTT GGACG	105
<210> 35 <211> 65 <212> DNA <213> Artificial Sequence	
<221> misc-feature <222> Description of Artificial Sequence: Complementary nucleotide of D1 fragment	sequence
<400> 35 CTAGTCCTTC TACTTGCATA ACAAGACCAA CTGTTGTTCA CGTTCACACG AGCATAATGA	60
AGATC	65

```
<210> 36
<211> 206
<212> DNA
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Complementary nucleotide sequence
of TpS2
<400> 36
ACTTCGCTAC TGCTGCTATT CCGGGTTTGC CTCTGGACAT GACAACGCGG AGCACTTGCC
                                                                      60
GTTTTGACGC CTAAGGGCCT TCATTGTGGG AGAGTCACGC GATTATTTCC GACGACAAAA
                                                                      120
CTACTGTGCC ATGCCCCGCA AGGCACCACG AAGATGGGGT TATGTTAACT GCAAGGCGGA
                                                                      180
CTTCTTCTCA CGCTCGGCAT TCTTAA
                                                                      206
<210> 37
<211> 13
<212> Protein
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Domain 1, 13 amino peptide with
substantial \beta-sheet character
<400> 37
    Asp Gln Glu Asp Glu Arg Ile Val Leu Val Asp Asn Lys
<210> 38
<211> 7
<212> Protein
<213> Tobacco etch virus
<220>
<221> misc-feature
<222> Peptide recognized by the tobacco etch virus protease Nia
<400> 38
    Glu Asn Leu Tyr Phe Gln Ser
                    5
```

```
<210> 39
<211> 11
<212> Protein
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Synthetic polypeptide residues
from pro-cathepsin E
<400> 39
     Lys Ala His Lys Val Asp Met Val Gln Tyr Thr
                    5
<210> 40
<211> 4
<212> Protein
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Linker from procathepsin
<400> 40
    Val Gln Tyr Thr
    1
<210> 41
<211> 6
<212> Protein
<213> Human
<220>
<221> misc-feature
<222> Linker from polyimmunoglobulin receptor
<400> 41
    Glu Lys Ala Val Ala Asp
```

```
<210> 42
<211> 131
<212> DNa
<213> Artificial Sequence
<220> CDS
<221> 1..78
<222> Description of Artificial Sequence: Nucleotide sequence of secretion
signal from pMelBac
<400> 42
ATG AAA TTC TTA GTC AAC GTT GCC CTT TTT ATG GTC GTA TAC ATT TCT
                                                                       48
Met Lys Phe Leu Val Asn Val Ala Leu Phe Met Val Val Tyr Ile Ser
                 40
                                     45
TAC ATC TAT GCG GAT CCG AGC TCG AGT GCT CTAGATCTGC AGCTGGTACC
                                                                       98
Tyr Ile Tyr Ala Asp Pro Ser Ser Ser Ala
             55
ATGGAATTCG AAGCTTGGAG TCGACTCTGC TGA
                                                                      131
<210> 43
<211> 26
<212> Protein
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Synthetic polypeptide sequence of
secretion signal from pMelBac
<400> 43
Met Lys Phe Leu Val Asn Val Ala Leu Phe Met Val Val Tyr Ile Ser
                                     10
Tyr Ile Tyr Ala Asp Pro Ser Ser Ser Ala
             20
<210> 44
<211> 4
<212> Protein
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Endomembrane retention signal
<400> 44
    Lys Asp Glu Leu
```

```
<210> 45
<211> 16
<212> Protein
<213> Human
<220>
<221> misc-feature
<222> Residues 585-600 of polyimmunoglobulin receptor
<400> 45
     Ala Ile Gln Asp Pro Arg Leu Phe Ala Glu Glu Lys Ala Val Ala Asp
                                             10
<210> 46
<211> 61
<212> DNA
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Oligonucleotide 1
<400> 46
GATCAGGAAG ATGAACGTAT TGTTCTGGTT GACAACAAGT GCAAGTGTGC TCGTATTACT
                                                                      60
Т
                                                                      61
<210> 47
<211> 61
<212> DNA
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Oligonucleotide 2
CTAGAAGTAA TACGAGCACA CTTGCACTTG TTGTCAACCA GAACAATACG TTCATCTTCC
                                                                      60
Т
                                                                      61
<210> 48
<211> 31
<212> DNA
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Oligonucleotide 1.1
<400> 48
GATCAGAAGT GCAAGTGTGC TCGTATTACT T
                                                                      31
```

<21U>	47	
<211>	6	
<212>	DNA	
<213>	Artificial Sequence	
12107	in our rotat boduction	
<220>		
	mine Fash	
	misc-feature	
<222>	Description of Artificial Sequence: Oligonucleotide 1.2	
<400>	49	
CTAGAA	GTAA TACGAGCACA CTTGCACTTC T	31
<210>	50	
<211>		
<212>		
<213>	Artificial Sequence	
<220>		
<221>	misc-feature	
<222>	Description of Artificial Sequence: Oligonucleotide 1.2ser	
<400>	50	
GATCAG	GAAG ATGAACGTAT TGTTCTGGTT GACAACAAGT GCAAGTCCGC TCGTATTACT	60
	0.2.010000 1001.111.01	00
Т		61
-		61
-210-	51	
<210>		
<211>		
<212>		
<213>	Artificial Sequence	
	,	
<220>		
<221>	misc-feature	
<222>	Description of Artificial Sequence: Oligonucleotide 2.2ser	
	1. 2 05	
<400>	51	
	GTAA TACGAGCGGA CTTGCACTTG TTGTCAACCA GAACAATACG TTCATCTTCC	
CINONN	TACOAGCOGA CITGCACITG TIGTCAACCA GAACAATACG TTCATCTTCC	60
т		
T		61

```
<210> 52
 <211> 61
 <212> DNA
 <213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Oligonucleotide 1.2val
<400> 52
GATCAGGAAG ATGAACGTAT TGTTCTGGTT GACAACAAGT GCAAGGTTGC TCGTATTACT
                                                                       60
Т
                                                                       61
<210> 53
<211> 61
<212> DNA
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Oligonucleotide 2.2val
<400> 53
CTAGAAGTAA TACGAGCAAC CTTGCACTTG TTGTCAACCA GAACAATACG TTCATCTTCC
                                                                       60
Т
                                                                       61
<210> 54
<211> 61
<212> DNA
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Oligonucleotide 3
<400> 54
CTAGAATCAT CCGTAGCTCA GAGGACCCAA ATGAAGATAT AGTCGAA
                                                                      47
<210> 55
<211> 58
<212> DNA
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Oligonucleotide 4
<400> 55
GATACGGATG TTACGTTCGA CTATATCTTC ATTTGGGTCC TCTGAGCTAC GGATGATT
                                                                      58
```

```
<210> 56
 <211> 49
 <212> DNA
 <213> Artificial Sequence
 <220>
 <221> misc-feature
<222> Description of Artificial Sequence: Oligonucleotide 5
 <400> 56
 CGTAACATCC GTATCATCGT CCCACTGAAT AACCGGGAGA ATATCTCAG
                                                                       49
 <210> 57
 <211> 49
 <212> DNA
< <213> Artificial Sequence
 <220>
 <221> misc-feature
 <222> Description of Artificial Sequence: Oligonucleotide 5.1dg
 <400> 57
 CGTAACATCC GTATCATCGT CCCACTGAAT AACCGGGAGC ACATCTCAG
                                                                       49
 <210> 58
 <211> 49
 <212> DNA
 <213> Artificial Sequence
 <220>
 <221> misc-feature
 <222> Description of Artificial Sequence: Oligonucleotide 6
 <400> 58
 ACGGACTTGT AGGATCTGAG ATATTCTCCC GGTTATTCAG TGGGACGAT
                                                                       49
 <210> 59
 <211> 49
 <212> DNA
 <213> Artificial Sequence
 <220>
 <221> misc-feature
<222> Description of Artificial Sequence: Oligonucleotide 6.1dg
ACGGACTTGT AGGATCTGAG ATGTGCTCCC GGTTATTCAG TGGGACGAT
                                                                       49
```

```
<210> 60
<211> 44
<212> DNA
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Oligonucleotide 7
<400> 60
ATCCTACAAG TCCGTTGCGC ACACGCTTCG TATACCACCT GTCA
                                                                       44
<210> 61
<211> 33
<212> DNA
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Oligonucleotide 8
<400> 61
GATCTGACAG GTGGTATACG AAGCGTGTGC GCA
                                                                       33
<210> 62
<211> 60
<212> DNA
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Oligonucleotide 9
<400> 62
GATCTGTGTA AGAAGTGTGA TCCAACAGAG GTAGAGCTGG ACAATCAGAT AGTCACTGCA
                                                                       60
<210> 63
<211> 44
<212> DNA
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Oligonucleotide 9L3\Delta
<400> 63
GATCTGTGTA AGAAGGATGA GGACAGCGCT ACAGAAACCT GCTG
                                                                      44
```

<210>	64	
<211>	44	
<212>	DNA	
<213>	Artificial Sequence	
	•	
<220>		
<221>	misc-feature	
<222>		
	or and the second of the secon	
<400>	64	
	AGCAG GTTTCTGTAG CGCTGTCCTC ATCCTTCTTA CACA	
	Some difference coefficient Arcelletta CACA	44
<210>	65	
<211>		
<212>		
	Artificial Sequence	
\Z13/	Artificial Sequence	
<220>		
	misc-feature	
<222>		
\222 <i>)</i>	Description of Artificial Sequence: Oligonucleotide 9L3 Δ KDEL	
<400>	65	
OMICIC	TGTA AGAAGGATGA GGACAGCGCT ACAGAAACCT GCTACGAGAA GGATGAGCTG	60
TG		
10		62
<210>	66	
<211>		
<212>		
	Artificial Sequence	
~213/	Arctificial Sequence	
<220>		
	misc-feature	
<222>		
\ZZZ/	Description of Artificial Sequence: Oligonucleotide 10L3 Δ KDEL	
<400>	66	
inii i Ch	CAGC TCATCCTTCG CGTCGCAGGT TTCTGTAGCG CTGTCCTCAT CCTTCTTACA	60
CA		
		62
<210>	67	
<211>	59	
<212>		
<213>	Artificial Sequence	
-213/	Wietricial peddeuce	
<220>		
	misc-feature	
<222>		
-406/	Description of Artificial Sequence: Oligonucleotide 9.2 $\Delta 3$	
<400>	67	
	TGTA AGAAGTCTGA TATCGATGAA GATTCCGCTA CAGAAAGCTG GAGGAGATG	

<210>	68	
<211>	59	
<212>	DNA	
<213>		
1220	or restrict boducines	
<220>		
<221>	misc-feature	
<222>	· ·	
(222)	Description of Artificial Sequence: Oligonucleotide 10.2 Δ 3	
-100-	68	
<400>		
AATTCA	TGTG CTGCAGGTTT CTGTAGCGGA ATCTTCATCG ATATCAGACT TCTTACACA	59
<210>	69	
<211>	64	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<221>	misc-feature	
<222>		
1222	bestription of Artificial Sequence: Offgonucleotide 9.303/ser68	
<400>	69	
(400)		
CATCTC		
GAICIG	TCTA AGAAGTCTGA TATCGATGAA GATTACAGAT TCTTCAGACT ATAGCTACTT	60
CTAA		
CIAA		64
.010	7 0	
<210>	70	
<211>		
<212>		
<213>	Artificial Sequence	
<220>		
<221>	misc-feature	
<222>	Description of Artificial Sequence: Oligonucleotide $10.3\Delta3/ser68$	2
	2	,
<400>	70	
	CATC GATATCAGAC TTCTTAGACA	2.0
	OMATCAGAC TICTIMOMOM	30

```
<210> 71
 <211> 64
<212> DNA
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Oligonucleotide 9.3\Delta3/val68
<400> 71
GATCTGGTTA AGAAGTCTGA TATCGATGAA GATTACCAAT TCTTCAGACT ATAGCTACTT
                                                                       60
CTAA
                                                                       64
<210> 72
<211> 30
<212> DNA
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Oligonucleotide 10.3\Delta3/val68
<400> 72
AATCTTCATC GATATCAGAC TTCTTAACCA
                                                                       30
<210> 73
<211> 41
<212> DNA
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Oligonucleotide 10
<400> 73
ATTGTCCAGC TCTACCTCTG TTGGATCACA CTTCTTACAC A
                                                                       41
<210> 74
<211> 46
<212> DNA
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Oligonucleotide 11
<400> 74
ACTCAAAGCA ACATTTGCGA TGAGGACAGC GCTACAGAAA CCTGCA
                                                                       46
```

```
<210> 75
 <211> 57
 <212> DNA
<213> Artificial Sequence
<220>
 <221> misc-feature
<222> Description of Artificial Sequence: Oligonucleotide 12
<400> 75
GGTTTCTGTA GCGCTCTGCT CATCGCAAAT GTTGCTTTGA GTCGCAGTGA CTATCTG
                                                                   57
<210> 76
<211> 59
<212> DNA
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Oligonucleotide 13
<400> 76
GCACCTACGA TAGGAACAAA TGCTACACGG CCGTGGTTCC GCTCGTGTAT GGTGGAGAG
                                                                59
<210> 77
<211> 48
<212> DNA
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Oligonucleotide 14
<400> 77
GAGCGGAACC ACGGCCGTGT AGCATTTGTT CCTATCGTAG GTGCTGCA
                                                                     48
<210> 78
<211> 50
<212> DNA
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Oligonucleotide 15
ACAAAAATGG TGGAAACTGC CCTTACGCCC GATGCATGCT ATCCGGACTG
                                                                     50
```

<210>	79	
<211>	69	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<221>	misc-feature	
<222>	Description of Artificial Sequence: Oligonucleotide 16	
<400>	79	
AATTCA	GTCC GGATAGCATG CATCGGGCGT AAGGGCAGTT TCCACCATTT TTGTCTCTCC	60
ACCATA	CAC	69
<210>	80	
<211>		
<212>		
	Artificial Sequence	
12137	Arctitetal Sequence	
<220>		
<221>	misc-feature	
<222>		
	of the second of the contract bequence. Offgondereoffde 15kber	
<400>	80	
ACAAAA	ATGG TGGAAACTGC CCTTACGCCC GATGCATGCT ATCCGGACAA GGATGAATTG	60
		00
TG		62
	81	
<211>		
<212>		
<213>	Artificial Sequence	
-220		
<220>		
	misc-feature	
<222>	Description of Artificial Sequence: Oligonucleotide 16KDEL	
<400>	81	
	CAAT TCATCCTTGT CCGGATAGCA TGCATCGGGC GTAAGGGCAG TTTCCACCAT	
	ZEET TOMICCITOT CCGGATAGCA TGCATCGGGC GTAAGGGGCAG TTTCCACCAT	60
TTTTGTC	CTCT CCACCATACA C	0.7
		81

<211> 88 <212> DNA <213> Artificial Sequence <220> <221> misc-feature <222> Description of Artificial Sequence: Oligonucleotide P1 <400> 82 GATCAGGTCG CTGCCATCCA AGACCCGAGG CTGTTCGCCG AAGAGAAGGC CGTCGCTGAC	60 88
<213> Artificial Sequence <220> <221> misc-feature <222> Description of Artificial Sequence: Oligonucleotide P1 <400> 82	
<220> <221> misc-feature <222> Description of Artificial Sequence: Oligonucleotide P1 <400> 82	
<220> <221> misc-feature <222> Description of Artificial Sequence: Oligonucleotide P1 <400> 82	
<221> misc-feature <222> Description of Artificial Sequence: Oligonucleotide P1 <400> 82	
<222> Description of Artificial Sequence: Oligonucleotide P1 <400> 82	
<222> Description of Artificial Sequence: Oligonucleotide P1 <400> 82	
<400> 82	
GATCAGGTCG CTGCCATCCA AGACCCGAGG CTGTTCGCCG AAGAGAAGGC CGTCGCTGAC	
The second of th	
	88
TCCAAGTGCA AGTGTGCTCG TATTACTT	00
<210> 83	
<211> 88	
<212> DNA	
<213> Artificial Sequence	
<220>	
<221> misc-feature	
<pre><222> Description of Artificial Sequence: Oligonucleotide P2</pre>	
order-resolution of the second	
<400> 83	
CTAGAAGTAA TACGAGCACA CTTGCACTTG GAGTCAGCGA CGGCCTTCTC TTCGGCGAAC	60
THE THE PROPERTY OF THE PROPER	60
AGCCTCGGGT CTTGGATGGC AGCGACCT	88
	00
<210> 84	
<211> 10	
<212> Protein	
<213> Artificial Sequence	
4	
<220>	
<221> misc-feature	
<222> Description of Artificial Sequence: Nuclear targeting sequence	1
	•
<400> 84	
Cys Ala Ala Pro Lys Lys Lys Arg Lys Val	
1 5 10	

```
<210> 85
<211> 22
<212> Protein
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Nuclear targeting sequence 2
<400> 85
     Cys Ala Ala Lys Arg Pro Pro Ala Ala Ile Lys Lys Ala Ala Gly
     Gln Ala Lys Lys Lys
                 20
<210> 86
<211> 4
<212> Protein
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: HDEL linker sequence for
intracellular targeting
<400> 86
    His Asp Glu Leu
<210> 87
<211> 77
<212> DNA
<213> Artificial Sequence
<220>
<221> misc-feature
<222> Description of Artificial Sequence: Oligonucleotide Tp1
GCGATGACGA CGATAAGGCC CAAACGGAGA CCTGTACTGT TGCGCCTCGT GAACGGCAAA
                                                                     60
ACTGCGGATT CCCGGAA
                                                                     77
```

\Z10>		
<211>	66	
<212>	DNA	
<213>	Artificial Sequence	
	. 1	
<220>		
	miga faakuus	
	misc-feature	
<222>	Description of Artificial Sequence: Oligonucleotide Tp2	
<400>	88	
GTTTTG	CCGT TCACGAGGCG CAACAGTACA GGTCTCCGTT TGGGCCTTAT CGTCGTCATC	60
	TOUGHT TOUGHT TOUGHT COTCOTCATE	80
GCTTCA		
		66
.210.		
<210>		
<211>	72	
<212>		
<213>	Artificial Sequence	
<220>		
	misc-feature	
<222>		
\ZZZZ/	Description of Artificial Sequence: Oligonucleotide Tp3	
-100		
<400>	89	
GTAACA	CCCT CTCAGTGCGC TAATAAAGGC TGCTGTTTTG ATGACACGGT ACGGGGCGTT	60
CCGTGG	TGCT TC	72
<210>	90	
<211>	72	
<212>		
(213)	Artificial Sequence	
000		
<220>		
<221>	misc-feature	
<222>	Description of Artificial Sequence: Oligonucleotide Tp4	
<400>	90	
	FACC GTGTCATCAA AACAGCAGCC TTTATTAGCG CACTGAGAGG GTGTTACTTC	66
	THE TAGES CACTUAGAGG GIGITACTIC	60
CGGGAA	TCCG CA	
JOOURA.	LOCO CA	72

\2102	, 5T	
<211>	. 49	
<2125	DNA	
(213)	Artificial Sequence	
<220>		
<221>	misc-feature	
<222>	Description of Artificial Sequence: Oligonucleotide Tp5	
	i de la contraction de la cont	
<400>	91	
IACCC	CAATA CAATTGACGT TCCGCCTGAA GAAGAGTGCG AGCCGTAAG	49
<210>	92	
<211>	68	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
	misc-feature	
<222>	Description of Artificial Sequence: Oligonucleotide Tp6	
<400>	92	
AATTC:	TTACG GCTCGCACTC TTCTTCAGGC GGCAAGTCAA TTGTATTGGG GTAGAAGCAC	
	TIGITORIOGE GOCARGICAA TIGIATIGGG GTAGAAGCAC	60
CACGG	AAC .	
C11C C C1	*	68
010		
<210>		
<211>		
<212>	Protein	
<213>	Artificial Sequence	
<220>		
<221>	min Cont	
<222>	Description of Artificial Sequence: Synthetic peptide linker	
<400>	93 .	,
V	al Ala Val Gln Ser Ala Gly Thr Pro Ala Ser Gly Ser	
1	5 10	
	10	

P.